

10/670,132

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:08:46 ON 12 JUL 2004

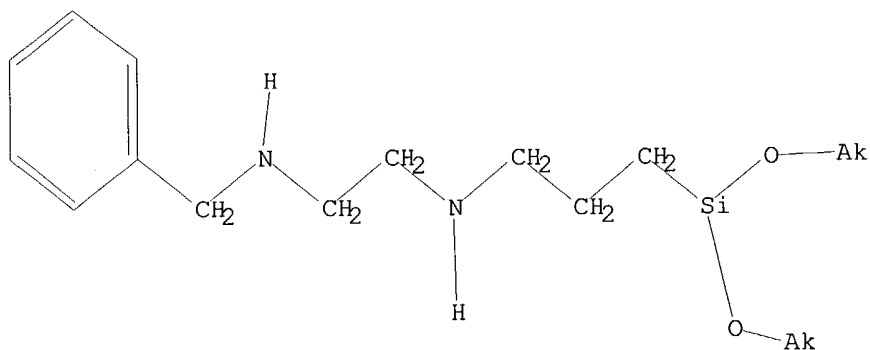
=> file reg

=> d 11

L1 HAS NO ANSWERS

L1 STR

Ak

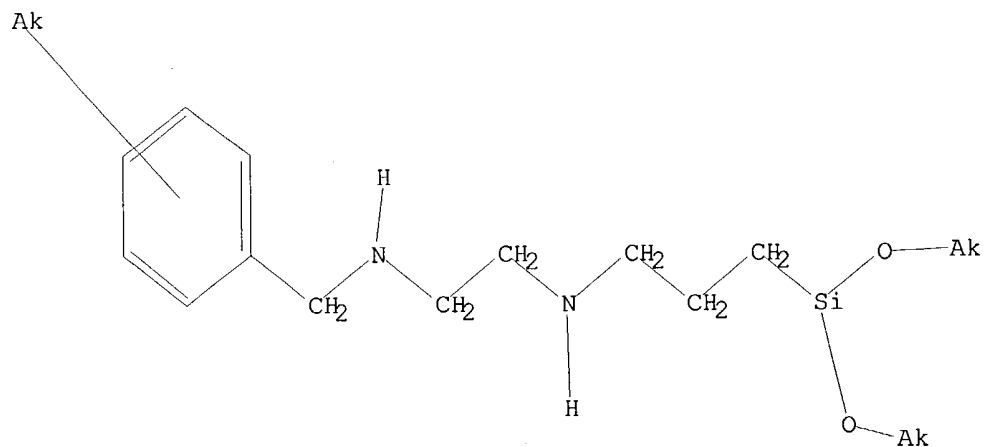


Structure attributes must be viewed using STN Express query preparation.

=> d 15

L5 HAS NO ANSWERS

L5 STR



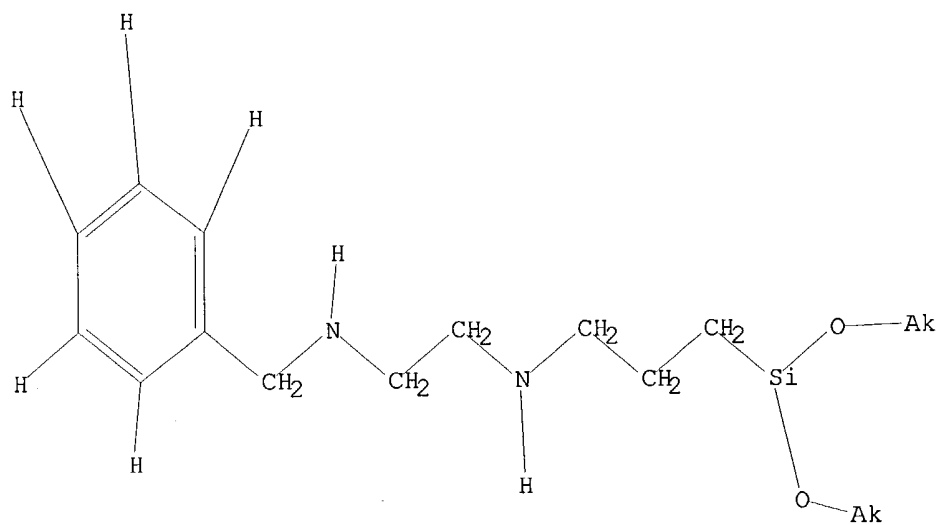
Structure attributes must be viewed using STN Express query preparation.

=> d 19

L9 HAS NO ANSWERS

L9 STR

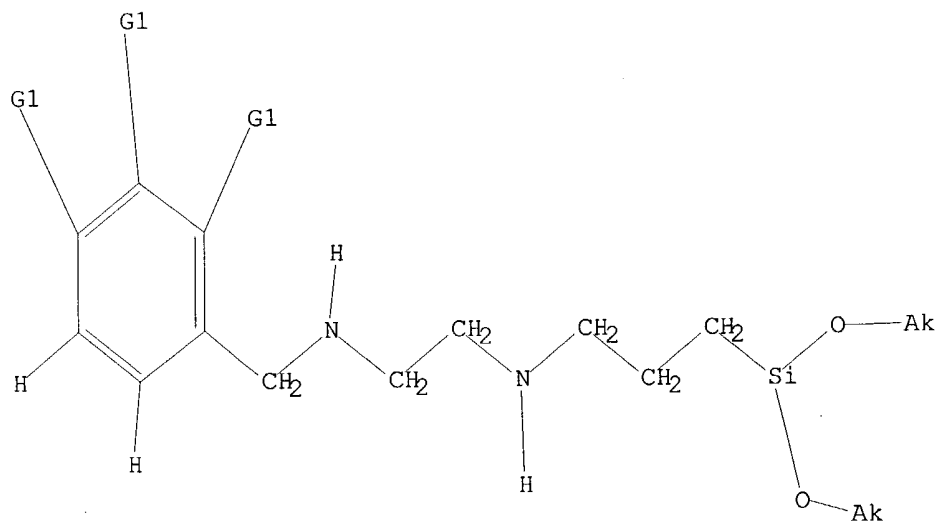
10/670,132



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> d l11
L11 HAS NO ANSWERS
L11 STR



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> d l16
L16 HAS NO ANSWERS
L16 STR

10/670,132

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

```
=  
=> s 118  
L19          2 L18  
  
ibib abs hitstr 1-2
```

10/670,132

L19 ANSWER 1 OF 2 CA COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 126:172736 CA

TITLE: Silane coupling agents for glass fibers and manufacture of glass fiber-reinforced epoxy resin moldings with improved solder-heat resistance

INVENTOR(S): Suzuki, Yoshiharu

PATENT ASSIGNEE(S): Nitto Boseki Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08325439	A2	19961210	JP 1995-156718	19950601
PRIORITY APPLN. INFO.:			JP 1995-156718	19950601

OTHER SOURCE(S): MARPAT 126:172736

AB The coupling agents comprise aminosilanes $R_1C_6H_4CH_2NH(CH_2CH_2NH)_m(CH_2)_nSi(O R_2)_3$ ($R_1 = H, Me, Et$; $R_2 = C_1-10$ alkyl; $m = 0-3$, $n = 1-6$) or their salts. The process comprises treating the surface of glass fibers with the coupling agents, followed by immersing the resulting fibers into epoxy resins. Thus, 1.0 mol (γ -aminopropyl)triethoxysilane and 1.0 mol α -chloro-p-xylene reacted at 60-80.degree. for 16 h to give N-(p-tolylmethyl)- γ -(aminopropyl)triethoxysilane hydrochloride (I), which was preserved as a MeOH soln. An aq. soln. contg. 0.7 part I and 0.5 part AcOH was used to impregnate WEA 18W 105 (a glass cloth), which was squeezed to 28% pickup and dried at 110.degree. for 5 min to give a reinforcing agent. Eight prepregs comprising the reinforcement and a compn. comprising Epikote 5046B8 (brominated epoxy resin) 100, Epikote 154 20, dicyandiamide 4, 2-ethyl-4-methylimidazole 0.2, MEK 15, and DMF 30 parts were laminated and sandwiched between Cu foils at 170.degree. to give a Cu-clad laminate.

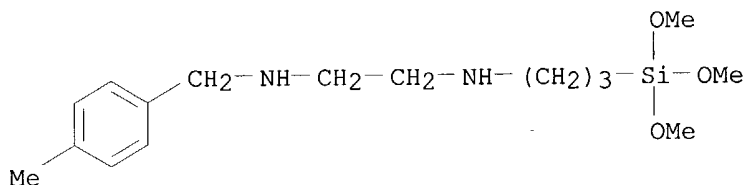
IT 186653-85-0P 186653-86-1P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(aminosilane coupling agents for glass fiber-reinforced epoxy resin moldings with improved solder-heat resistance)

RN 186653-85-0 CA

CN 1,2-Ethanediamine, N-[(4-methylphenyl)methyl]-N'-[3-(trimethoxysilyl)propyl]-, hydrochloride (9CI) (CA INDEX NAME)



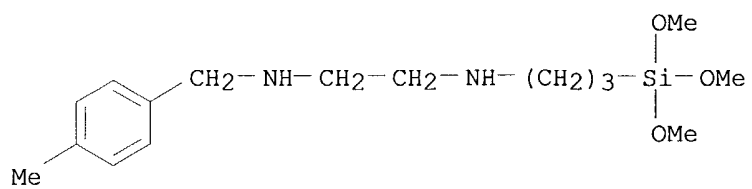
12b
1-3/15-8

●x HCl

RN 186653-86-1 CA

CN 1,2-Ethanediamine, N-[(4-methylphenyl)methyl]-N'-[3-(trimethoxysilyl)propyl]- (9CI) (CA INDEX NAME)

10/670,132



10/670,132

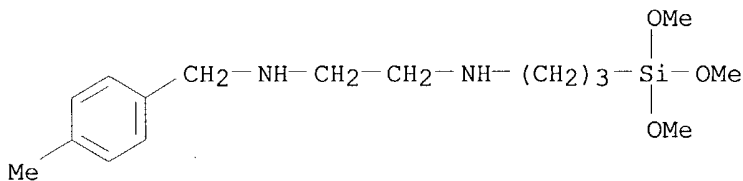
L19 ANSWER 2 OF 2 CA COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 112:181555 CA
TITLE: Surface-treated silsesquioxanes for antifouling
coatings
INVENTOR(S): Saito, Kenji; Kimura, Hiroshi
PATENT ASSIGNEE(S): Toshiba Silicone Co., Ltd., Japan
SOURCE: Ger. Offen., 7 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3912878	A1	19891102	DE 1989-3912878	19890419
JP 01268609	A2	19891026	JP 1988-94548	19880419
JP 2532124	B2	19960911		
GB 2219301	A1	19891206	GB 1989-8477	19890414
GB 2219301	B2	19910925		
US 4996257	A	19910226	US 1989-340509	19890418
FR 2630124	A1	19891020	FR 1989-5231	19890419
FR 2630124	B1	19940225		

PRIORITY APPLN. INFO.: JP 1988-94548 19880419
OTHER SOURCE(S): MARPAT 112:181555

AB The title powders are treated with the quaternary ammonium salts
[R1R2R3NZ1Si(R4)a(OR5)3-a]+ X- or [R1R2R3NZ2NHZ1Si(R4)a(OR5)3-a]+ X- [R1 =
alkyl, aralkyl, polyoxyalkylene; R2, R3 = H, (hydroxy)alkyl; R4 = alkyl,
Ph; R5 = alkyl; Z1, Z2 = alkylene; X = anion; a = 0-3]. A Me
silsesquioxane (av. particle size 2 .mu.m) was milled with 0.8 phr
[C18H37N(Me)2(CH2)3Si(OMe)3]+ Cl- in MeOH and dried at 105.degree. to give
a powder. A mixt. of this powder 100, vehicle 200, Fe2O3 30, and
iso-BuCOMe 50 parts was sprayed (100 .mu.m) on primed steel and left 24 h
at room temp. to give a coating showing little or no fouling by marine
organisms after 6 mo in seawater.

IT 126739-07-9
RL: USES (Uses)
(powd. silsesquioxanes treated with, for antifouling coatings)
RN 126739-07-9 CA
CN 1,2-Ethanediamine, N-[(4-methylphenyl)methyl]-N'-[3-
(trimethoxysilyl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



102(b)
V3

● HCl

10/670,132

=> file caold

=> s 118

L20 0 L18

=> file uspatfull

=> s 118

L21 1 L18

=> d ibib abs fhitstr

L21 ANSWER 1 OF 1 USPATFULL on STN

ACCESSION NUMBER: 91:17164 USPATFULL
 TITLE: Surface-treated polyorganosilsesquioxane fine powder
 INVENTOR(S): Saito, Kenji, Gunma, Japan
 Kimura, Hiroshi, Gunma, Japan
 PATENT ASSIGNEE(S): Toshiba Silicone Co., Ltd., Tokyo, Japan (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4996257		19910226
APPLICATION INFO.:	US 1989-340509		19890418 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1988-94548	19880419
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Marquis, Melvyn I.	
LEGAL REPRESENTATIVE:	Sughrue, Mion, Zinn, Macpeak & Seas	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 1 Drawing Page(s)	
LINE COUNT:	385	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A polyorganosilsesquioxane fine powder which is surface-treated with an organosilicon compound containing a quaternary ammonium group, represented by the formula (I) or (II): ##STR1## wherein R.sup.1 represents an alkyl group, a substituted or unsubstituted aralkyl group, or a group represented by (C.sub.n H.sub.2n O).sub.m Z wherein Z represents a hydrogen atom or an alkyl group, symbol n is an integer of 2 to 4, and symbol m is an integer of 1 to 20; R.sup.2 and R.sup.3 each independently represents a hydrogen atom, an alkyl group or a hydroxyalkyl group; Q.sup.1 and Q.sup.2 each independently represents an alkylene group; R.sup.4 represents an alkyl group or a phenyl group; R.sup.5 represents an alkyl group having 1 to 4 carbon atoms; X.sup.- represents an anion; and symbol a is an integer of 0 to 3.

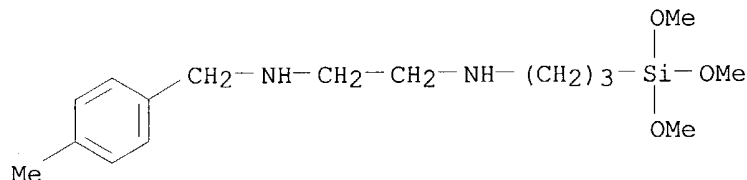
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 126739-07-9

(powd. silsesquioxanes treated with, for antifouling coatings)

RN 126739-07-9 USPATFULL

CN 1,2-Ethanediamine, N-[(4-methylphenyl)methyl]-N'-[3-(trimethoxysilyl)propyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

524/262,265
 427/387
 428/447
 1026) 520/477
 1-3

10/670,132

10/670,132

=> d his

(FILE 'HOME' ENTERED AT 10:08:46 ON 12 JUL 2004)

FILE 'REGISTRY' ENTERED AT 10:08:52 ON 12 JUL 2004

L1 STRUCTURE UPLOADED

L2 2 S L1 SAM

L3 29 S L1 FULL

FILE 'CA' ENTERED AT 10:09:21 ON 12 JUL 2004

L4 140 S L3

FILE 'REGISTRY' ENTERED AT 10:09:56 ON 12 JUL 2004

L5 STRUCTURE UPLOADED

L6 0 S L5 SAM

L7 20 S L5 FULL

FILE 'CA' ENTERED AT 10:10:59 ON 12 JUL 2004

L8 100 S L7

FILE 'REGISTRY' ENTERED AT 10:11:24 ON 12 JUL 2004

L9 STRUCTURE UPLOADED

L10 8 S L9 FULL

L11 STRUCTURE UPLOADED

L12 28 S L11 FULL

L13 20 S L12 NOT L10

FILE 'CA' ENTERED AT 10:13:27 ON 12 JUL 2004

L14 100 S L13

L15 92 S L14 AND PY<2002

FILE 'REGISTRY' ENTERED AT 10:15:10 ON 12 JUL 2004

L16 STRUCTURE UPLOADED

L17 25 S L16 FULL

L18 3 S L13 NOT L17

FILE 'CA' ENTERED AT 10:17:58 ON 12 JUL 2004

L19 2 S L18

FILE 'CAOLD' ENTERED AT 10:19:08 ON 12 JUL 2004

L20 0 S L18

FILE 'USPATFULL' ENTERED AT 10:19:19 ON 12 JUL 2004

L21 1 S L18

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

STN INTERNATIONAL LOGOFF AT 10:19:34 ON 12 JUL 2004